Release notes for ENDF/B Development photoat-035_Br_000 evaluation



October 13, 2016

- checkr Warnings:
 - 1. A previous error halted parsing of the current section $MAT=3500,\ MF=1,\ MT=451\ (1)$: Parsing stopped

ERROR(S) FOUND IN MAT=3500, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 155 TO 179

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range MAT=3500, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=3500, MF= 1, MT=451
MOD = 3 OUT OF RANGE 0 - 1 RECORD NUMBER 155

2. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3500, MF=23, MT=501 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=501
SECTION 23/501 NOT IN DIRECTORY RECORD NUMBER 181

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3500, MF=23, MT=502 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=502
SECTION 23/502 NOT IN DIRECTORY RECORD NUMBER 878

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3500, MF=23, MT=504 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=504
SECTION 23/504 NOT IN DIRECTORY RECORD NUMBER 1176

5. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3500, MF=23, MT=515 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=515
SECTION 23/515 NOT IN DIRECTORY RECORD NUMBER 1217

6. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3500, MF=23, MT=516 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=516
SECTION 23/516 NOT IN DIRECTORY RECORD NUMBER 1251

7. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3500, MF=23, MT=517 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=517 SECTION 23/517 NOT IN DIRECTORY

RECORD NUMBER 1303

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 3500, MF = 23, MT = 522 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=522 SECTION 23/522 NOT IN DIRECTORY

RECORD NUMBER 1343

9. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 3500, MF = 23, MT = 534 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=534 SECTION 23/534 NOT IN DIRECTORY

RECORD NUMBER 1675

10. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 3500, MF = 23, MT = 535 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=535 SECTION 23/535 NOT IN DIRECTORY

RECORD NUMBER 1698

11. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 3500, MF = 23, MT = 536 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=536 SECTION 23/536 NOT IN DIRECTORY

RECORD NUMBER 1726

12. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3500, MF=23, MT=537 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=537

SECTION 23/537 NOT IN DIRECTORY

RECORD NUMBER 1764

13. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3500, MF=23, MT=538 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=538

SECTION 23/538 NOT IN DIRECTORY

RECORD NUMBER 1795

14. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3500, MF=23, MT=539 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=539 SECTION 23/539 NOT IN DIRECTORY

RECORD NUMBER 1830

15. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=3500,\ MF=23,\ MT=540\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=540 SECTION 23/540 NOT IN DIRECTORY

RECORD NUMBER 1869

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 3500, MF = 23, MT = 541 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=541 SECTION 23/541 NOT IN DIRECTORY

RECORD NUMBER 1909

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 3500, MF = 23, MT = 542 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=542 SECTION 23/542 NOT IN DIRECTORY

RECORD NUMBER 1961

18. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 3500, MF = 23, MT = 543 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=543 SECTION 23/543 NOT IN DIRECTORY

RECORD NUMBER 2014

19. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=3500,\ MF=23,\ MT=544\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=544 SECTION 23/544 NOT IN DIRECTORY

RECORD NUMBER 2071

20. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3500, MF=23, MT=545 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=23, MT=545 SECTION 23/545 NOT IN DIRECTORY

RECORD NUMBER 2124

21. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3500, MF=27, MT=502 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=27, MT=502 SECTION 27/502 NOT IN DIRECTORY

RECORD NUMBER 2178

22. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3500, MF=27, MT=504 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=27, MT=504 SECTION 27/504 NOT IN DIRECTORY

RECORD NUMBER 2232

23. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=3500,\ MF=27,\ MT=505\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=27, MT=505 SECTION 27/505 NOT IN DIRECTORY

RECORD NUMBER 2288

24. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3500, MF=27, MT=506 (0): Directory (b)

ERROR(S) FOUND IN MAT=3500, MF=27, MT=506 SECTION 27/506 NOT IN DIRECTORY

RECORD NUMBER 2403

• fudge-4.0 Warnings:

1. generic warning message reaction label 0: Br + gamma [coherent] / Product: gamma (Error # 0): Warning

 ${\tt WARNING: coherentScattering \ is \ not \ a \ valid \ distribution \ component \ for \ 2-body \ reaction}$

2. FIXME: Generic fudge unimplemented message reaction label 0: Br + gamma [coherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for pointwise type data

3. generic warning message reaction label 1: Br + gamma [incoherent] / Product: gamma (Error # 0): Warning

WARNING: incoherentScattering is not a valid distribution component for 2-body reaction

4. FIXME: Generic fudge unimplemented message reaction label 1: Br + gamma [incoherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for piecewise type data

5. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 16: total (Error # 0): Sumrule

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 100.00%

6. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 18: photoelectric absorption (Error # 0): Sumrule

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 75.44%

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: Br + gamma [coherent] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

2. 2-body reaction not in center-of-mass frame reaction label 0: Br + gamma [coherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

3. Calculated and tabulated thresholds don't agree reaction label 1: Br + gamma [incoherent] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

4. 2-body reaction not in center-of-mass frame reaction label 1: Br + gamma [incoherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

5. Energy range of data set does not match cross section range reaction label 1: Br + gamma [incoherent] / Product: gamma / Distribution incoherentScattering - piecewise: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (0.0 -> 1000000000.0) vs (1.0 -> 1e+11)

6. Calculated and tabulated thresholds don't agree reaction label 2: e- + e+ + Br [electron field] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2.044e6 eV!

7. Calculated and tabulated thresholds don't agree reaction label 3: e- + e+ + Br [nuclear field] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!

8. Calculated and tabulated thresholds don't agree reaction label 4: e- + Br1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 13435. eV!

9. Calculated and tabulated thresholds don't agree reaction label 5: e- + Br2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1769.2 eV!

10. Calculated and tabulated thresholds don't agree reaction label 6: e- + Br2p1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1602.1 eV!

11. Calculated and tabulated thresholds don't agree reaction label 7: e- + Br2p3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1553.6 eV!

- 12. Calculated and tabulated thresholds don't agree reaction label 8: e- + Br3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 251.49 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 9: e- + Br3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 191.82 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 10: e- + Br3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 184.78 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 11: e- + Br3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 79.59 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 12: e- + Br3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 78.45 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 13: e- + Br4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 24.18 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 14: e- + Br4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.59 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 15: e- + Br4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.03 eV!
- 20. Calculated and tabulated thresholds don't agree summedReaction label 16: total / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!
- 21. Calculated and tabulated thresholds don't agree summedReaction label 17: pair product / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!
- 22. Calculated and tabulated thresholds don't agree summedReaction label 18: photoelectric absorption / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11.03 eV!